

A NEW SPECIES OF THE GENUS *BACTROCERA* MACQUART FROM CHINA (DIPTERA, TEPHRITIDAE)

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Abstract A new species of the genus *Bactrocera* Macquart (Diptera, Tephritidae) is described from Yunnan Province, China was described. The type specimens are deposited in Fujian Agriculture and Forestry University.

Key words Diptera, Tephritidae, *Bactrocera*, new species, Yunnan, China.

The genus *Bactrocera* Macquart belongs to the subfamily Dacinae (Diptera, Tephritidae), which was erected by Macquart (1835) for a single species, *B. longicornis* Macquart from Solomon Is. Fruit flies of *Bactrocera* are distributed mainly in tropical Asia, the Pacific and Australian Regions, including more than 470 described species (White et Hancock, 1997). In China, 45 species of *Bactrocera* had been recorded by Wang (1996, 2008) and Lin (2005, 2006). While checking the specimens from Yunnan Province, we found a new species collected in Jinghong.

Bactrocera Macquart, 1835

Bactrocera Macquart, 1835: 452. Type-species: *B. longicornis* Macquart, 1835, by monotypy.

Dasyneta Saunders, 1842: 60. Type-species: *D. zonata* Saunders, 1842 [= *Bactrocera* (*Bactrocera*) *zonata* (Saunders, 1842)], by monotypy.

Strumeta Walker, 1856: 33. Type-species: *S. conformis* Walker, 1856 [= *Bactrocera* (*Bactrocera*) *umbrosa* (Fabricius, 1805)], by monotypy.

Chaetodacus Bezzi, 1913: 93. Type-species: *Musca ferruginea* Fabricius, 1794 [= *Bactrocera* (*Bactrocera*) *dorsalis* (Hendel, 1912)], by original designation.

Marquesadacus Malloch, 1932: 145 (as subgenus of *Dacus*). Type-species: *Chaetodacus perfusus* Aubertin, 1929 [= *Bactrocera* (*Bactrocera*) *perfusa* (Aubertin, 1929)], by monotypy.

Apodacus Perkins, 1939: 26. Type-species: *A. cheesmanae* Perkins, 1939 [= *Bactrocera* (*Bactrocera*) *cheesmanae* (Perkins, 1939)], by original designation.

Aglaodacus Munro, 1984: 25. Type-species: *A. nesiotis* Munro, 1984 [= *Bactrocera* (*Daculus*) *nesiotis* (Munro, 1984)], by original designation.

Mauritidacus Munro, 1984: 25. Type-species: *M. monlyanus* Munro, 1984 [= *Bactrocera* (*Afrodacus*) *monlyanus* (Munro, 1984)], by original designation.

Bactrocera (*Bactrocera*) *cheni* sp. nov. (Figs 1–4)

Description. Male, body length 7.4 mm.

Head. Vertical length 1.8 mm. Fulvous with fuscous around orbital setae and on anteromedial hump; orbital setae black; 1 s. or., 2 i. or.; lunule fuscous. Ocellar triangle black. Vertex fuscous black. Face (Fig. 1) with a big-sized oval spots. Gena fulvous, brown subocular spot present, black seta

present. Occiput fuscous black, yellow along eye margins. Occipital row with 5 dark setae. Antennae with segments 1 and 2 fulvous, segment 3 fulvous with fuscous to black on apex and outer surface. Arista black (fulvous basally). Length of segments: 0.15 mm; 0.30 mm; 0.75 mm.

Thorax. Scutum (Fig. 2) black except brown below and behind later postsutural vittae, around transverse suture and inside postpronotal lobes. Pleural areas black except red-brown below postpronotal lobes. Yellow markings as follows: postpronotal lobe; notopleuron; narrow-sized mesopleural stripe, slightly wider than notopleuron; anatergite (posterior apex black); anterior 3/5 katatergite (remainder black); two medium parallel-sided lateral postsutural vittae ending at ia. setae. Postnotum black. Scutellum yellow except for narrow black basal band. Setae: sc. 2; prsc. 2; ia. 1; p. sa. 1; a. sa. 1; mpl. 1; npl. 2; scp. 4; all setae well developed and black.

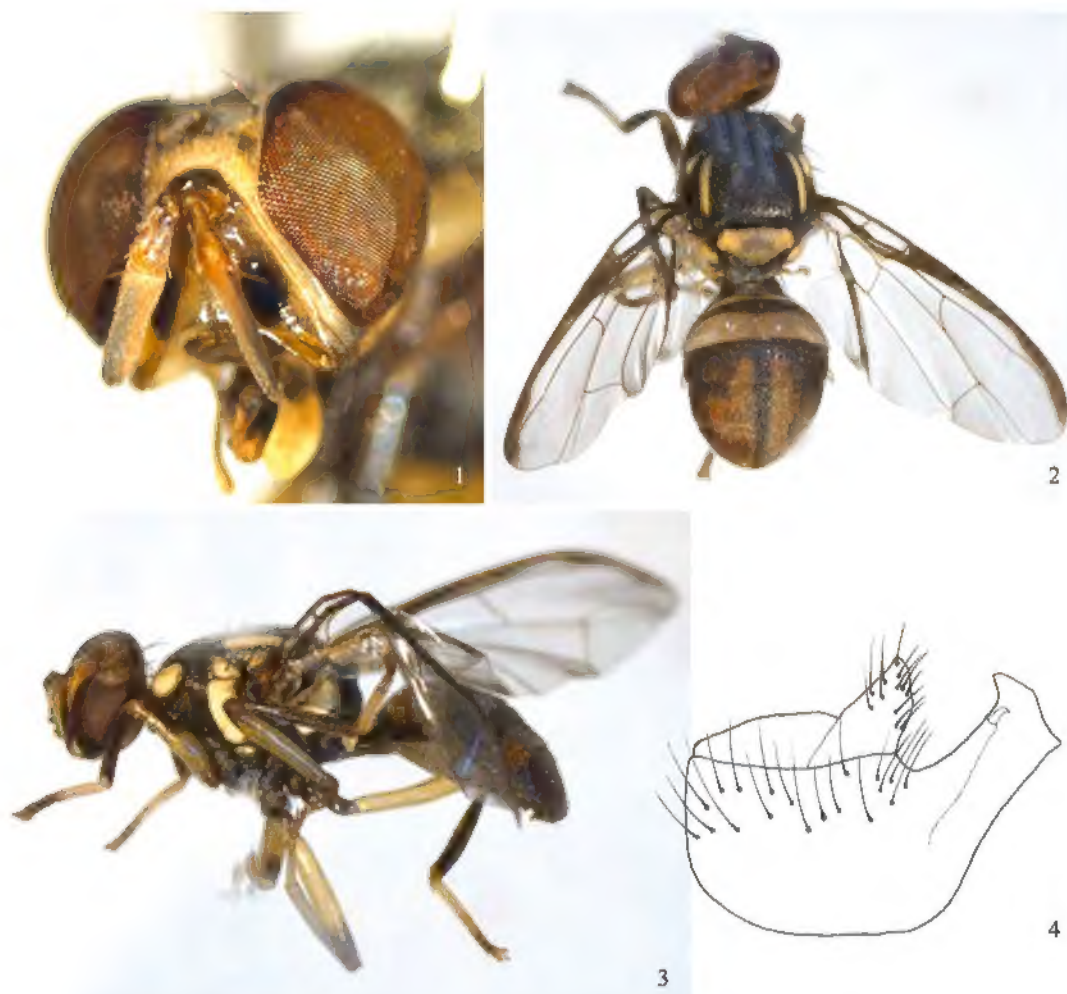
Wings (Fig. 3). Length 6.5 mm; cells bc and c colourless; cell br with microtrichia anteriorly, but clear posteriorly; a narrow fuscous costal band confluent with R_{2+3} and widening slightly as it crosses this vein before ending between extremities of R_{4+5} and M; a narrow dark anal streak ending well before wing margin; dense microtrichia around A_1 and CuA_2 ; supernumerary lobe of medium development.

Legs. Fore femora fulvous with black on 1/2 of outer apical surface, with rows of long black setae on dorsal surface; inner apical 1/3 of mid femora black; inner apical 1/4 of hind femora black; fore tibiae fuscous, but fulvous basally; mid tibiae fulvous tending fuscous basally, and each with an apical black spur; hind tibiae fuscous dark.

Abdomen (Fig. 2). Oval; terga free; pecten present on tergum 3. Tergum 1 black except for a narrow, short orange-brown band on median portion,

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Figs 1–4. *Bactrocera* (*Bactrocera*) *cheni* sp. nov., ♂. 1. Head in front view. 2. Dorsal view. 3. Lateral view. 4. Epandrium, cercus and surstylus in profile.

but not reaching lateral margins; tergum 2 orange-brown with a dark transverse band across anterior portion; terga 3–5 orange-brown with a broad medial longitudinal black band over all three terga; a pair of oval orange-brown shining spots on tergum 5. Posterior lobe of surstylus short (Fig. 4).

Female. Unknown.

Etymology. This species is named after the taxonomist S. H. Chen.

Holotype ♂, China, Jinghong (22.01° N, 100.48° E), Yunnan Province, 20 Dec. 2010, ZHANG Nan-Nan. Paratypes 4 ♂♂, same data as holotype.

Distribution. China, Yunnan (Jinghong).

Host plant. Unknown.

Attractant. Cue-lure.

Remarks. This is a new number of *B. dorsalis* complex, it is similar to *Bactrocera* (*Bactrocera*) *lombokensis* Drew et Hancock in possessing big-sized oval spots, fore femora fulvous with black on 1/2 of outer apical surface. It differ from *lombokensis* in having inner apical 1/3 of mid femora black, inner apical 1/4 of

hind femora black, mid tibiae fulvous tending fuscous basally.

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中国果实蝇属一新种记述 (双翅目, 实蝇科, 寡鬃实蝇亚科)

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摘要 记述采自中国云南的果实蝇属 (双翅目, 实蝇科) 1 新种, 陈氏果实蝇 *Bactrocera* (*Bactrocera*) *cheni* sp. nov., 模式标本保存于福建农林大学益虫研究所。

陈氏果实蝇, 新种 *Bactrocera* (*Bactrocera*) *cheni* sp. nov. (图 1~4)

新种属于桔小实蝇复合体, 新种与龙目实蝇 *Bactrocera*

(*Bactrocera*) *lombokensis* Drew et Hancock 相近, 与后者的区别为: 中足腿节内端 1/3 具黑褐色斑, 后足腿节内端 1/4 具黑褐色斑, 中足胫节黄褐色, 向基部颜色加深。

正模 ♂, 云南景洪, 2010-12-20, Cuc-lure 引诱, 张南南采。副模 4 ♂♂, 同正模。

词源: 新种种名源自分类专家 S. H. Chen 的姓氏。

关键词 双翅目, 实蝇科, 果实蝇属, 新种, 云南, 中国。

中图分类号 Q969.442.6

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